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1	US 6339595	61	370/392	370/400		P	P	P
2	US 6101188	20	370/401	370/255		P	P	P
3	US 963939	118	707/4	345/700		P	P	P
4	US 926463	31	370/254	370/410		P	P	P
5	US 920699	29	709/225			P	P	P
6	US 905723	7	370/351	340/2.27		P	P	P
7	US 973865	29	709/250	370/254		P	P	P
8	US 563671	28	703/26	340/825.52		P	P	P
9	US 533731	10	370/403	370/452		P	P	P

Turning to FIG. 5, the next two scenarios will use a single switch. In these scenarios the switch 506 has been configured with 2 VLANs with ports 1 and 2 in VLAN 1 and port 3, 4 and 5 in VLAN 2. The VLANs are defined based on the IP subnet that they connect to, VLAN 1 is associated with IP subnet 10.1.8.x and VLAN 2 is associated with IP subnet 10.2.8.x.

In this scenario, the hosts and switch have just been booted and no ARP caches or MAC address tables exist in any of the network components. Host A 501 wishes to talk to HOST C 503. Host A 501 will send an ARP to find the MAC address of HOST C 503 (10.2.8.1). The source MAC address in the ARP request will be Host A's 501 MAC address and the destination MAC address will be a broadcast address. The switch 406 receives this packet and learns that HOST A 501 is on port 1 and sends the packet to the VSE because the destination is a broadcast. The VSE analyzes the packet and because the destination is the 10.2.8.x network the VSE forwards the ARP request packet out on ports 3, 4 and 5. The VSE also adds HOST A 501 to its ARP cache and marks the ASIC's MAC address table to indicate that future unicast traffic from HOST A 501 is not to be sent to the VSE if the destination MAC address is known. HOST C 503 will receive the ARP broadcast and send a unicast ARP reply. When the switch 406 receives the reply it adds HOST C 503 to the MAC address table and although the destination MAC address is known, this is the first time that the source MAC address of HOST C 503 has been heard from and the unicast packet is sent to the VSE. The VSE analyzes the packet and adds Host C 503 to its ARP cache and marks the ASIC's MAC address table to indicate that future unicast traffic from HOST C 503 is not to be sent to the VSE if the destination MAC address is known. The switch 406 then forwards the ARP reply to port 1 so HOST A 501 can add HOST C 503 to its ARP cache. At this point, all future unicast traffic sent between HOST A 501 and C 503 is switched at level 2 and bypasses the VSE. Whether packets are sent on the same VLAN or to a different VLAN, the broadcasts always go to the VSE. The VSE then decides which ports to send the packet out on. The only difference is when a packet is destined for the same VLAN, the broadcast would not be sent to all ports in the VLAN--the originating port would be left out.

This scenario starts with the assumption that scenario 1 above has just run (i.e. the switch 506 has HOST A 501 and C 503 in MAC address and ARP caches). Host B 502 now wishes to talk to HOST C 503. Host B 502 sends an ARP to HOST C 503. The source MAC address in the ARP request will be Host B's 502 MAC address and the destination MAC address will be a broadcast address. The switch 506 receives this packet and learns that HOST B 502 is on port 2 and sends the packet to the VSE because the destination is a broadcast. The VSE analyzes the packet and because the destination is 10.2.8.1 is in its ARP cache

[[AS1 - (msd)art.wsp.1]]

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Default operator: OR ☐ Highlight all hits initially

28 and 24

☐ Drafts

☐ Pending

☒ Active

- L1: (1) "6339595".pn.
- L2: (1) 1 and firewall
- L3: (1) 1 and domain
- L4: (704) firewall same router
- L5: (117) 4 and domain same client same (server or service)
- L6: (5) 4 and domain same client same (server or service) same logical
- L7: (127) internal near2 firewall
- L8: (13) 7 same router
- L9: (572) 4 and flow
- L10: (15) 4 and logical near4 domain
- L11: (1) "5825736".pn.
- L12: (1) "5835726".pn.
- L13: (0) dual near2 internal near4 firewall
- L14: (17) dual near4 firewall
- L15: (10818) tcp adj ip
- L16: (9497) 15 and connection
- L17: (22) 16 and accann
- L18: (55) token near4 server same (authoriz56)
- L19: (103) radius near4 protocol
- L20: (17811) radius and network
- L21: (773) 20 and client and server
- L22: (773) 709/225.ccls.
- L23: (169555) }
- L24: (3710) (709/225 or 709/203 or 709/227).ccls.
- L25: (972) 24 and (authorization or authorize or authenticate or authentication)
- L26: (1609) ("709/225" or 709/229).ccls.
- L27: (282) 26 and 713/201.ccls.
- L28: (13024) ras!
- L29: (60) 28 and 24

☐ Failed

- L ("709", "225" or 709/229).ccls.

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